

CABLEDTM

Starter Kit



User's Manual

CONTENTS

Unpack.....	2
Required Tools	3
Strip Specification	3
Warnings and Cautions.....	4-5
Plan Your Installation.....	6
Measure and Mark Surface.....	6-7
Mark and Cut LED Strip	8-9
Installation	10-14
Test	14
Mounting.....	15-16
Connect to Power.....	17
Troubleshooting	17-18

BEFORE YOU BEGIN, MAKE SURE YOU CAREFULLY READ AND UNDERSTAND THE INSTRUCTIONS IN THIS MANUAL. This CabLED kit includes an assortment of components to cover a variety of indoor or outdoor applications. Our goal is to make this installation easy for you. Please follow the instructions in the order presented in this manual and be sure to observe all warnings and cautions.



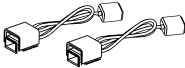
IMPORTANT: Each connector consists of two parts, a top and bottom, which are partially assembled at the factory. Do not push the connectors together BEFORE installation. Do not cut the LED strip before planning your installation.

Make certain the following components are included in the package. If any of the parts are missing or damaged please contact OptiLED Customer Service. Parts are not shown in actual size.

Package Contains:



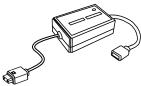
1 x 6' LED Indoor/Outdoor Lighting Strip



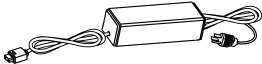
2 x 24" Jumper Cables
Connects 2 CabLED™ strips
with a 61cm/24inch flexible cable



1 x Power Supply Connector
Used in all installations.
Connects CabLED™ strips to power supply



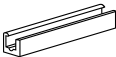
1 x Dimmable on/off Switch



1 x 18W Indoor/Outdoor Power Supply



2 x End Caps
Used in all installations. Protects
end of CabLED™ strip that is not
connected to a connector.



6 x 4" Channeling Strips



1 x Cutting Jig



1 x 6' of 3M™ 2-Way Adhesive Tape

Required Tools:



Pencil



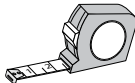
Pliers



Scissors



Safety Glasses



Tape Measure



Level

CabLED Strip Specification

The CabLED strip uses CREE High Brightness LED lights set every inch and can be cut every 7 inches (18cm).



	Warm White (3500K)
Input Voltage	24V
Input Current	154mA
Power	3.7W/m
Weight	3.5oz/m
*Lifetime	35,000h
Beam Angle	120°
Lumen/Meter	170lm
CRI	80
No. of LED/Segment	6pcs
LED Pitch	30mm
IP Rating	IP65
Operating Temperature	-20°~50°
Storage Temperature	-25°~60°
Min. Bending Radius	3.9in
Max. Connection Length with an 18W Power Supply	15ft
Max. Connection Length with a 30W Power Supply	25ft
Max. Connection Length with a 60W Power Supply	50ft

*With 70% lumen maintenance
30 & 60 watt power supplies can
be purchased at homedepot.com
or through CabLEDLighting.com

IMPORTANT WARNINGS AND CAUTIONS!



WARNING: A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.



CAUTION: A CAUTION alerts you to the possibility of damage to or destruction of the equipment if you do not follow the corresponding instructions.

WARNING: Do not open, dismantle or attempt to repair the LED strip, bottom half of the connectors, inline dimmer or power supply. There are no user serviceable parts. Products should be installed in accordance with the owner's manual, current electrical codes and/or the current National Electric Code (NEC). Improper installation may present a possible shock or fire hazard. Always make sure the LED strip is disconnected from the power source before cutting, connecting, mounting or modifying in any way.

The LED strip is water resistant, not water proof. Do not submerge. Mount power supply at least one foot above the ground. Do not submerge in water.

Safety measures must be observed at all times during the installation of this product. Use proper safety gear and tools during the installation process to prevent physical injury.

Do not look directly at the LED lights in the CabLED strip when lit.

Do not mount or support flexible light in a manner that can damage the outer jacket or cord insulation.

Risk of fire and electric shock. Uncoil flexible light prior to plugging in.

CAUTION: Create layout plan before installation. Locate power supply, determine suitable mounting methods and connectors, measure and calculate the length of CabLED LED required. LED strip can only be cut at every 7 inches (18cm) and must be cut exactly on the indicated mark.

Use only CabLED connectors, channeling, inline dimmer and power supply.

Do not use acid or alkaline liquid to clean.

Suitable for indoor and outdoor use

Risk of electric shock. Do not use with extension cord near water or where water may accumulate. For use only on GFCI protected circuits.

Material may become brittle when cold. Do not install where it may be stepped on or subject to physical damage.

Do not install near flammable liquids.

Step 1: Plan Your Installation



IMPORTANT: The connectors consist of two parts, a top and bottom, which are partially assembled at the factory. Do not push the connectors together or cut the LED strip BEFORE you have planned your installation.

We have included an assortment of components to cover a variety of indoor or outdoor applications. Plan your installation carefully to decide exactly which components your installation requires.

All installations require the Power Supply Connector, which connects the LED strip to the Power Supply and the End Cap which is used to protect the other end of the LED strip.

Step 2: Measure and Mark Surface

There are a few things to consider when measuring for your installation.

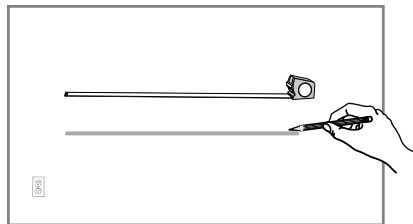
- Determine where your Power Supply will be mounted and plan your installation so the Power Supply Connector will be near the wall outlet.
- The connectors add about 1/2 inch (1.27cm) of length to the end of the LED strip and the LED strip may **ONLY** be cut along the cut line marked at every 7 inches (17.78cm) on the top of the strip.
- It may be useful to lay out the strip and connectors to visualize how the components fit together in your space before you begin. **DO NOT PUSH CONNECTORS TOGETHER.**
- Measure and mark the surface where the LED strip will be installed.

IMPORTANT: The LED strip may **ONLY** be cut every 7 inches (17.78cm), indicated by a cut line on the LED side of the strip. When you are measuring for your installation, if the total length is not a multiple of 7, then adjust the plan of your layout to be cut on the nearest mark.

2.1 For Use in a Straight Area

Measure and mark the surface where the LED strip will be installed.

Use the Power Supply, Power Supply Connector, 24" Jumper Cable and End Cap for installation.

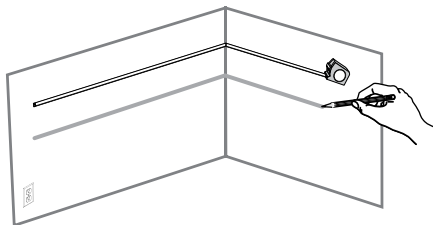


IMPORTANT: Place Power Supply near outlet and off the ground.

2.2 For Use in a Corner Area

Measure and mark the surface where the LED strip will be installed.

Use the Power Supply, Power Supply Connector, 24" Jumper Cable and End Cap for installation.



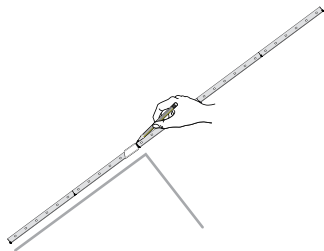
IMPORTANT: Place Power Supply near outlet and off the ground.

Step 3: Mark and Cut LED Strip

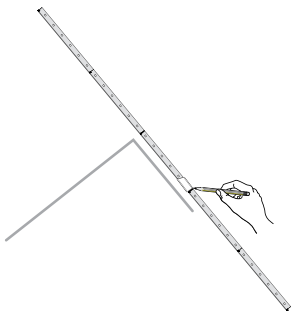
3.1 Mark LED Strip

Hold the LED strip up to the surface you just marked, locate nearest cut line and mark.

TIP: You can use the jig included in kit to ensure a straight and even cut.



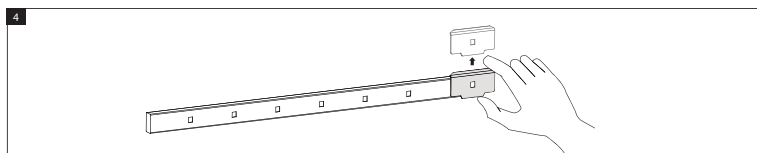
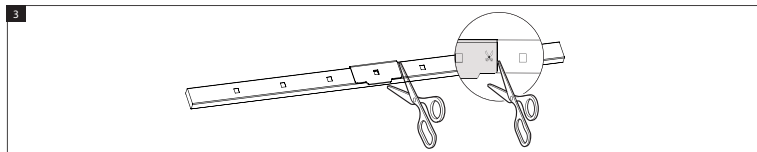
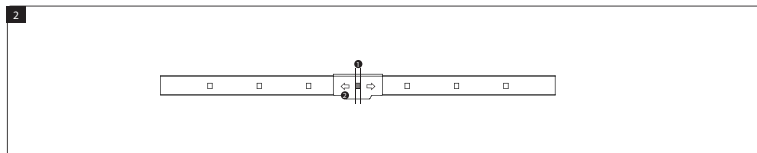
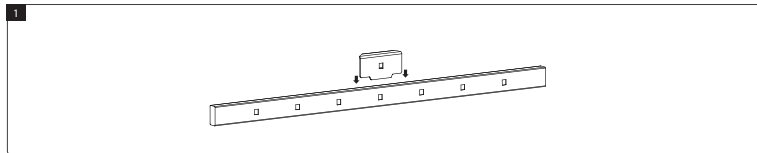
Rotate the strip along the surface you marked, locate nearest cut line and mark. Rotate and mark again for three-sided area. Adjust your layout if necessary.



3.2 Cut LED Strip

Use a pair of sharp scissors to cut the LED strip EXACTLY on the cut lines you have marked.

TIP: You can use the jig included in kit to ensure a straight and even cut.

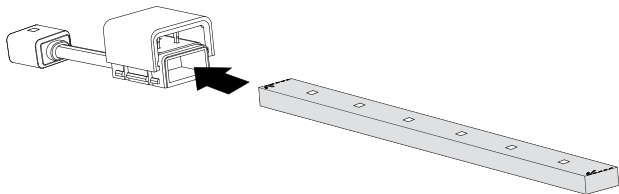


Step 4: Install Connectors

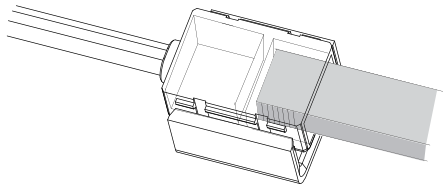
4.1 Install Power Supply Connector

- 4.1A** Find the end of the LED strip that will be installed nearest to the power. With LED side facing up, slide the strip into the opening in bottom half of the Power Supply Connector until it reaches the end.

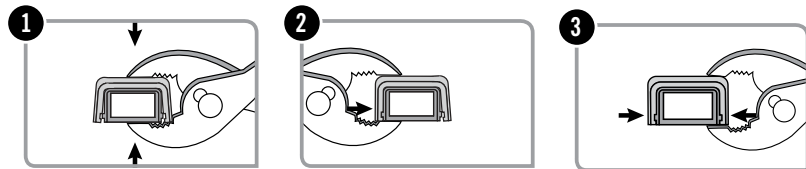
TIP: To make this installation process easier, apply petroleum jelly to the end of the CabLED (lightly coated) to make it easier to insert. This will not hurt the product.



- 4.1B** Make sure notches on the side of the CabLED are fully inserted inside the connector.

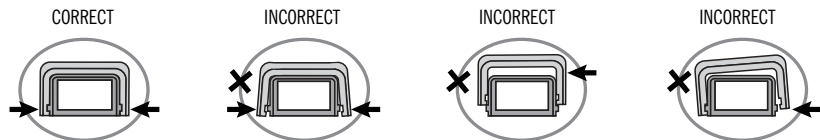


- 4.1C** Using pliers, apply even pressure to the bottom and top halves of the connector to push connector together, securing LED strip inside. After compressing the center of the connector, check to make sure the left and right side of the connector have clicked into place and are secure.



IMPORTANT: When using pliers that do not cover the surface of the connector, apply pressure to one side of the connector to push the connector together. Without moving the strip or the connector, carefully rotate the pliers to apply pressure to the other side of the connector.

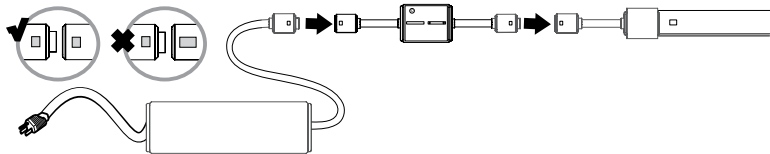
- 4.1D** Make sure both sides of the bottom half of the connector snap into the top half. Gently pull the LED strip to make sure you have installed it properly.



4.2 Install Inline Dimmer (Optional)

If included in your installation, the Inline on/off Dimmer Switch will fit between the Power Supply Connector and the Power Supply. Unplug the Power Supply from the AC outlet before connecting. Match the icons on the Power Supply Connector with the icons on the Inline Dimmer.

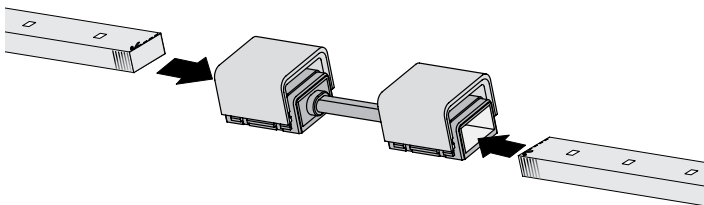
NOTE: The Inline Dimmer is optional and not required for a complete install.



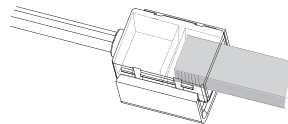
4.3 Install Jumper Cable

- 4.3A** With the LED side of each strip facing up, insert one strip into one side of the Jumper Cable and push to the end. Insert the other strip into the other side and push it to the end.

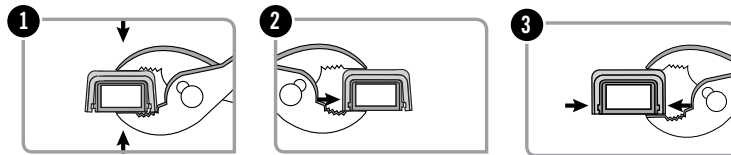
TIP: To make this installation process easier, apply petroleum jelly to the end of the CabLED (lightly coated) to make it easier to insert. This will not hurt the product.



- 4.3B** Turn the cable over and make sure the LED strip is pushed completely to the back of the cable.

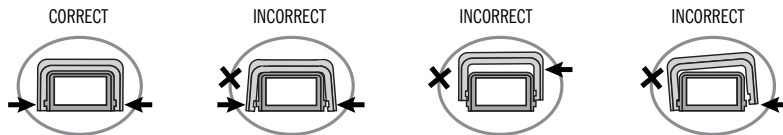


- 4.3C** Using pliers, apply even pressure to the bottom and top halves of the connector to push connector together, securing LED strip inside. After compressing the center of the connector, check to make sure the left and right side of the connector have clicked into place and are secure.



IMPORTANT: When using pliers that do not cover the surface of the connector, apply pressure to one side of the connector to push the connector together. Without moving the strip or the connector, carefully rotate the pliers to apply pressure to the other side of the connector.

- 4.3D** Make sure both sides of the bottom half of the connector snap into the top half. Gently pull the LED strip to make sure you have installed it properly.

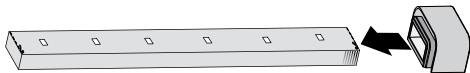


4.4 Install End Cap

Slide End Cap onto LED strip that will have no connector.

The End Cap protects the strip. End Cap does not have to be compressed.

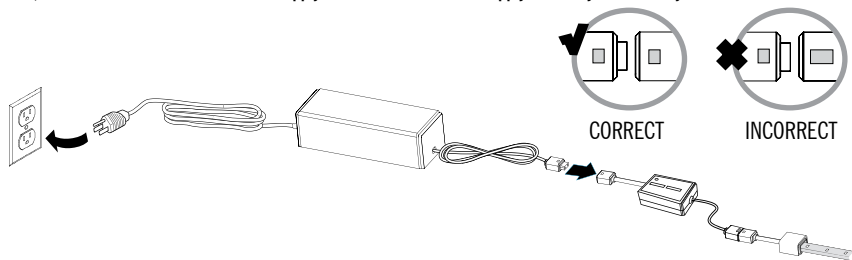
TIP: To make this installation process easier, apply petroleum jelly to the end of the CabLED (lightly coated) to make it easier to insert. This will not hurt the product.



Step 5: Test

The 18W Power Supply included in this kit will support up to 15' of product. 30W and 60W Power Supplies can be purchased at HomeDepot.com or through CabLEDLighting.com. Connect the other end of the Inline Dimmer to the Power Supply and plug the Power Supply into the wall outlet to test your assembly. If it works properly, unplug and continue. If not, see the Troubleshooting section.

NOTE: The Inline Dimmer is optional and not required for a complete install. If the Inline Dimmer is not included in your installation, connect the other end of the Power Supply Connector to the Power Supply and test your assembly.

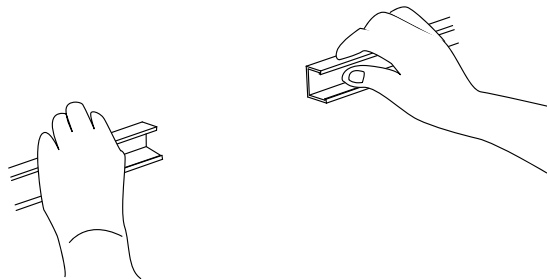


IMPORTANT: There is only one way to connect the Power Supply Connector to the Power Supply. Make certain the icons match before connecting.

Step 6: Mount

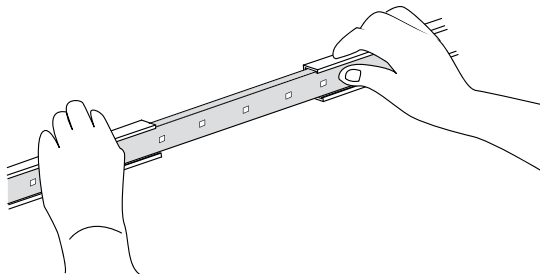
6.1 Mount Channeling

Strategically mount your 6 x 4" channeling strips using the 3M™ 2-way tape provided. To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified.



6.2 Install LED Strip

Install LED strip by pressing it firmly into each channeling strip. Working from Power Supply Connector to End Cap, make certain strip lies flat.

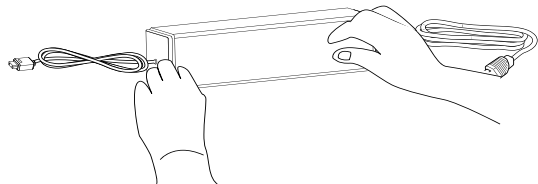


6.3 Mount Power Supply

Position Power Supply near power outlet and secure to your desired surface.

For outdoor applications, position Power Supply 1 foot above the ground.

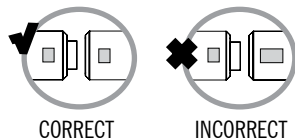
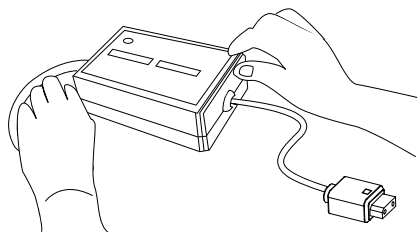
IMPORTANT: Do not plug into outlet until Power Supply is secured. Power Supply should only be plugged into a weatherproof covered Class A GFCI receptacle. Do not install or use within 10 feet of a pool. Do not use in a bathroom.



6.4 Mount Dimmer

Position dimmer near power outlet and secure to your desired surface. The Inline on/off Dimmer Switch fits between the Power Supply Connector and Power Supply. Unplug the Power Supply from the AC outlet before connecting. Match the icons on the Power Supply Connector with the icons on the Inline Dimmer.

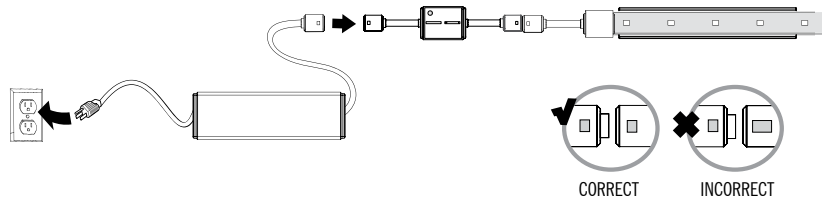
IMPORTANT: Do not plug into outlet until dimmer is secured.



Step 7: Connect to Power

Connect the other end of the Inline Dimmer to the Power Supply and plug the Power Supply into the wall outlet.

NOTE: The Inline Dimmer is optional and not required for a complete install. If the Inline Dimmer is not included in your installation, connect the other end of the Power Supply Connector to the Power Supply and plug the Power Supply into the wall outlet.



IMPORTANT: There is only one way to connect the Power Supply Connector to the Power Supply. Make certain the icons match before connecting.

TROUBLESHOOTING

Most of the problems you may encounter will be caused by improper assembly. If you have any questions or need additional parts, please contact our customer service or visit us at CabLEDLighting.com.

ISSUE	Go Through the Solutions:
None of the LED strip is lit	• Make sure Power Supply is plugged in and the AC power outlet is getting power. • Check connection from Power Supply Connector to Power Supply. • Check the connection on the Power Supply Connector to the LED strip. Pull the strip. If it comes out of the connector, you will need a new connector.

ISSUE	Go Through the Solutions:
Only part of the LED strip is lit	• Check all connectors attached to the part of the strip that is not lit. Pull the LED strip. If it comes out of the connector, you will need a new connector.
LED strip is flashing ON and OFF	• Make sure you are using the Power Supply shipped with the Starter Kit. If you bought another kit or additional LED strip, check the Power Supply specifications to make sure it supports the additional length.
LED strip not cut exactly on cut line	• Depending on how you cut the strip, you may still be able to save that section. The cutting tolerance is about +/-3 mm (+/- 1/8 inch) on either side of the cut line. Cutting in a straight line is crucial and the two wires inside the strip must be pushed to the very end inside the connector to make contact with the pins. • Go to the cut line before the cut line you incorrectly cut and make the section shorter. You may be able to adjust your layout by moving the sections around. • Visit HomeDepot.com or CabLEDLighting.com to purchase additional LED strips or Straight Connectors.
Connectors pushed together before installation	• If you pushed the connector top into the bottom before installation or if the LED strip was not pushed completely to the end of the connector and did not secure the strip, you may be able to save the part. Use a flat screw driver to gently widen the sides of the top connector and push the bottom connector apart. NOTE: This may not fix the connector and you may need to use a new connector. • Visit HomeDepot.com or CabLEDLighting.com to purchase additional connectors.

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